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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference EF-20859-PCT	FOR FURTHER ACTION SeeNotificationofTransmittalofInternationalPreliminary Examination Report (Form PCT/IPEA/416)			
International application No. PCT/KR2003/002415	International filing date(day/m		Priority date (day/mont 11 NOVEMBER 2002	•
International Patent Classification (IPC	11 NOVEMBER 2003		11 NOVEMBER 2002	: (11.11.2002)
IPC7 C12N 15/29				·
Applicant KOREA CHUNGANG EDUC	CATIONAL FOUNDATI	ON et al		
 This international preliminary examples and is transmitted to the applicant. This REPORT consists of a total. This report is also accompamended and are the basis. 	nt according to Article 36.	uding this cover sh	neet.	s which have been
70.16 and Section 607 of the These annexes consist of a total	he Administrative Instructions u	nder the PCT).		unionty (see Rule
3. This report contains indications				
I X Basis of the report	relating to the following items:			
II Priority				
<u>'</u>	of opinion with regard to novelt	y, inventive step a	nd industrial applicability	7
IV Lack of unity of inv		•	77	
V X Reasoned statemer citations and explan	nt under Article 35(2) with regar- nations supporting such statemer	d to novelty, inver	ntive step or industrial app	plicability;
VI Certain documents	cited			
VII Certain defects in the	he international application			
VIII Certain observation	s on the international application	n.		
			·	
Date of submission of the demand	Date	of completion of	this report	
08 JUNE 2004 (08	3.06.2004)	01 FEBRUA	RY 2005 (01.02.2005)	
Name and mailing address of the IPEA		horized officer		- Community
Korean Intellectual Propert 920 Dunsan-dong, Seo-gu, Republic of Korea	y Office Daejeon 302-701,	CHANG, Je Hw	/an	(Allei)
Facsimile No. 82-42-472-7140		phone No. 82-42	2-481-8158	Alexanica

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International aplication No.
PCT/KR2003/002415

I.	Basi	s of the report
1.	With	regard to the elements of the international application:*
		the international application as originally filed the description:
		pages 1-20 , as originally filed
		, filed with the demand
l		the claims:
	X	pages 22
1		pages 22 , as originally filed , as amended (together with any statment) under Article 19
		filed with the demand
		pages 21, filed with the letter of 03 Jan 2005
1	X	the drawings:
l	-	pages 1/12 - 12/12 , as originally filed
l		pages, as originally filed pages, filed with the demand, filed with the letter of
ł	X	the sequence listing part of the description:
		pages 1-5
		pages, as originally filed pages, filed with the demand
]. :	• •	pages, filed with the letter of
2.	With	regard to the language all the elements with the
		regard to the language, all the elements marked above were available or furnished to this Authority in the language in which international application was filed, unless otherwise indicated under this item.
	. Thes	e elements were available or furnished to this Authority in the following languageEnglish which is
		the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
	X	the language of publication of the international application (under Rule 48.3(b)).
	一	the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/
		or 55.3).
3.	With preli	n regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international iminary examination was carried out on the basis of the sequence listing:
	X	contained in the international application in written form.
	X I	filed together with the international application in computer readable form.
	一	furnished subsequently to this Authority in written form.
	\equiv	•
	ᆜ	furnished subsequently to this Authority in computer readable form The statement that the subsequently of a literature readable form
		The statement that the subsequently furnished written sequence listing does not go beyond the disc losure in the international applicationas as filed has been furinshed.
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
4.		The amendments have resulted in the cancellation of:
-		
		the description, pages the claims, Nos.
		Ab Junio
5.		the drawings, sheets
		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).**
	Replac n this and 70	ement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to opinion as "originally filed." and are not annexed to this report since they do not contain amendments (Rules 70.16 .17).
** /	iny re	placement sheet containing such amendments must be referred to under item I and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION

International aplication No. PCT/KR2003/002415

Statement			
Novelty (N)	Claims	1-11	YES
	Claims		No
Inventive step (IS)	Claims	1-11	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-11	YES
	Claims		NO NO

The documents cited in the International Search Report do not disclose relevant seed-specific expression promoter sequence set forth as SEQ ID NO.3 of the present invention.

Therefore, Claim 1 and Claim 3 of the present invention are novel and involve an inventive step. Claim 3 to Claim 11 are also novel and involve an inventive step because they are dependent claim of Claim 1 or Claim 2.

What is claimed is:

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- 1. A seed-specific expression promoter comprising an active fragment of nucleotides 482 to 608 (-179 to -53) of SEQ ID NO: 3.
- 5 2. The seed-specific expression promoter of claim 1, which comprises the nucleotide sequence as set forth in SEQ ID NO: 3.
 - 3. An intron for enhancement of gene expression comprising nucleotides 149 to 1722 of SEQ JD NO: 1.
 - 4. A seed-specific expression vector comprising the promoter of claim 1 and/or the intron of claim 3.
- 5. The seed-specific expression vector of claim 4, which is constructed by inserting the promoter upstream of a foreign gene of a binary vector.
 - 6. The seed-specific expression vector of claim 5, which is a pBinSiFAD2-GUS expression vector as shown in FIG. 4B.
 - 7. The seed-specific expression vector of claim 5, which is a pSiW6-P2.4 expression vector as shown in FIG. 9A.
- 8. The seed-specific expression vector of claim 4, which is constructed by inserting the promoter upstream of a foreign gene of a transient expression vector.
 - 9. The seed-specific expression vector of claim 8, which is a pSiFAD2-GUS expression vector as shown in FIG. 8A.
 - 10. A transgenic plant transformed with the seed-specific expression vector of any one of claims 4 through 9.